AIRBUS NORTH AMERICA ENGINEERING

INTERNAL JOB POSTING

Position: Engineering Specialist (Stress)

Department: Integrated Engineering

Location: MOBILE, AL

Reporting: Manager of Integrated Engineering

Description/
Requirements:

Airbus North America Engineering – Mobile, Alabama is a satellite office of Airbus North America Engineering (ANAE) engaged in the design, engineering and analysis of aircraft interiors, interior systems, and cargo systems. This position will apply considerable knowledge of principles, theories, concepts, industry practices and standards to deliver high quality design engineering solutions while assuring procedural compliance within assigned engineering project teams.

PRIMARY DUTIES AND RESPONSIBILITIES

- Develop solutions to a variety of complex engineering problems requiring judgment and ingenuity.
- Create Technical Specifications.
- Interface as needed with stress engineers, DMU, drafters, designers, suppliers and technical management personnel to assure manufacturability of designs.
- Resolve technical problems by all possible means including conferring with specialists that would critically affect performance, cost, or schedule.
- Represents the Company to current customers or suppliers on technical matters related to the assigned project or technical specialty.
- Provide technical input to engineering project teams.
- Provide input to engineering processes and suggest modifications regarding the design and development of aircraft cabins and components.
- Prepare engineering models and documents that meet or exceed compliance with engineering principles, regulatory requirements, company standards and customer contract requirements and apply those requirements.
- Work at great depth and/or breadth in skill or discipline.
- Develop solutions to handle the most complex tasks for which existing methods and procedures may not apply.
- Travel required 30% (some international).

STRESS ENGINEER ROLE:

The Engineer Stress Specialist engineer will apply knowledge of engineering principles, theories, concepts, industry practices and standards to deliver high quality design engineering solutions while assuring procedural compliance within assigned engineering project teams. Primary responsibilities include:

- Demonstrate creativity, foresight, and mature engineering judgment in anticipating and solving complex engineering problems, developing analysis methods and processes, and determining program objectives and requirements.
- Compile and translate contract requirements into work tasks.
- Plan, organize and prioritise work contents based on project deliverables.
- Perform detailed stress analysis of cabin or cargo components, by classical hand analysis as well as Finite Element methods, to support the structural design efforts of new and modified components from the conceptual phase to development and certification.
- Generate stress substantiation reports.
- Develop or review structural qualification plans in accordance with Airbus standards and regulatory requirements.
- Review and approve vendor drawings, stress reports, and test reports when delegated.
- Coordinate with design engineers, team lead, suppliers and technical management personnel to assure that the design meets or exceeds the project deliverables and complies with the regulatory requirements.

- Coordinate stress activities between ANAE and the respective Airbus Natco's.
- Participate in regularly scheduled design reviews, and is responsible to present stress findings and challenge design solutions.
- Develop research plans and participate in industry committees at company's request. Maintains a current knowledge of developments in the field of Structural Mechanics in order to recommend innovations to improve the quality, performance, cost of the company product.
- Compile and generate progress reports to convey deliverable objectives.
- Provide guidance to junior level stress engineers with regards to analysis methods, process or tools.
- Demonstrate a strong work ethic and sense of urgency for completing work assignments.

EXPERIENCE AND EDUCATION GUIDELINES:

- Bachelor's Degree (B.S.) from a four-year college or university; or equivalent combination of education and experience.
- Minimum of 10 years industry experience.
- Must have aircraft payloads and/or payloads systems integration experience.
- Must have strong capability in MS Office Products (Excel, Word, Project, PowerPoint)
- Understanding of the principles of aircraft design, structural analysis methods, processes and deliverables.
- Ability to read engineering drawings and schematics.
- Ability to be self directed and work in diverse teams.
- Ability to write reports, specifications, business correspondence, and procedure manuals.
- Ability to interpret an extensive variety of technical instructions in mathematical or diagram form and deal with several abstract and concrete variables.
- Excellent Communication & Organization skills needed, along with the ability to coordinate meetings.
- Position requires in-depth knowledge of Engineering Mechanics and Strength of Materials.
- Good leadership skills.
- Experience in static (FE and free-body) and transient analysis, Nastran, Patran, LS-Dyna3D, MathCad.
- Familiar with FAR and EASA requirements.

Qualified candidates should submit resume referencing requisition number via email at Mobile.hr@airbus.com **or via fax to 251-434-7202. You must reference requisition #M2008-07.** As a leader in our field, Airbus provides relocation assistance and a comprehensive compensation and benefits package. To learn more about the benefits of employment with Airbus North America, please visit http://airbus.benenet.net

Airbus North America Engineering is an Equal Opportunity Employer.